**Roller Coaster Unit Pre-Assessment**

1. Define the following terms and write down any equations that might go with them.
   1. Potential Energy
   2. Kinetic Energy
   3. Law of Conservation of Energy
2. Research how a roller coaster can get you through a ride without using a motor. Write a detailed description as to how roller coasters actually work and be sure to include the three terms that you researched in question 1 and how they relate to the coaster.